

Jackson Demonstration State Forest
Upper Hare Creek 2013 Timber Sale

SUMMARY OF SALE INFORMATION

Bid Date:	March 5, 2013	Estimated Net Volume:	1,797 MBF
Minimum Bid:		THP Number:	1-12-101 MEN
Redwood	\$310.00 /Mbf (min. bid)	Information:	Jason Serna
Douglas-fir	\$40.00 /Mbf (fixed rate)	Phone:	(707) 964-5674
Whitewoods	\$20.00 /Mbf (fixed rate)		ext. 114

Table 1. Estimated Total Volume to be Harvested (Bf)

Species	Gross	Net	% Defect & Breakage	% Comp.
Redwood	1,767,994	1,538,155	13%	74.7%
Douglas-fir	237,200	206,364	13%	19.1%
Whitewoods	58,831	52,360	11%	6.1%
Totals	2,064,025	1,796,879	13%	100%

Table 2a. Estimated Volume, Cable (Bf)

Species	Gross	Net
Redwood	643,131	559,524
Douglas-fir	70,496	61,332
Whitewoods	14,457	12,867
Totals	728,084	633,723

Table 2b. Estimated Volume, Tractor and ROW (Bf)

Species	Gross	Net
Redwood	1,124,863	978,631
Douglas-fir	166,704	145,032
Whitewoods	44,374	39,493
Totals	1,335,941	1,163,156

Table 3. Estimated Acreage

	Plan acres	No mark WLPZs, NSO, Non-timber	Net acres
Cable	200	40	160
Tractor and Road ROW	78	10	68
Non-timber	10	10	0
Totals	288	60	228

Table 4. QMD by Species and Unit

* QMD Excludes Estimated Volume Removed for Corridors , 12.5% of Total Gross Volume	
Species	QMD
Redwood	28
Douglas-fir	25
Whitewoods	24

GENERAL INFORMATION:

The list below is not intended to be all inclusive and all requirements of the Upper Hare Creek Timber Harvest Plan apply. Copies of Sections I and II of the THP are available by request from the State Forest headquarters. One complete copy will be provided to the LTO.

TIMBER HARVESTING PLAN:

Item 14a: Ten acres of non-timberland areas consists of existing roads and landings within the THP area.

Item 14d: Group Selection: No group opening has been designated. Harvest trees are marked with a blue paint stripe at approximately breast height on at least two sides, plus a base mark near ground level.

Road right-of-way: Proposed logging roads are centerline flagged with solid orange Site-Mark® "TRUCK ROAD" in black lettering. The clearing limits are designated with two vertical orange stripes that are painted on trees to be retained and are facing the centerline. All trees between the clearing limits are proposed for harvest. If necessary to provide adequate clearance for road construction, additional trees may be harvested upon approval of the responsible RPF.

Unmarked trees may be felled in the following situations:

1. To provide safe operation corridors for skyline cable operations (See Item 14g below).
2. To provide stumps for cable-rigging purposes.
3. Compliance with Title 8 CCR, Logging and Sawmill Safety Orders.
4. As described in Item 14g below.

Item 14f: Tanoak will be harvested to reduce competition with conifers. Any harvested hardwood may be yarded to the nearest landing. Hardwoods with a DBH of 22" or greater will not be harvested unless necessary for safety, yarding or road construction.

Item 14g: CABLE CLEARANCE TREES: Any tree (within the THP area only) may be harvested/felled if necessary for cable clearance, except for trees located within a WLPZ. Trees located within a WLPZ shall not be felled for cable corridors unless they directly impact the safety of cable-yarding operations, these trees felled for safety may be harvested.

DOWNED TREES: There shall be no cutting or removal of existing unmarked down trees or logs. These logs may be moved if necessary for clearing truck road rights-

of-way and as otherwise necessary to harvest the designated timber. If windthrow of merchantable trees occurs in the logging area prior to completion of operations, windthrown trees outside of the WLPZ may be harvested upon approval of the plan submitter.

TREES SUBSTANTIALLY DAMAGED BY LOGGING OPERATIONS:
Damaged trees may not be felled if within a WLPZ, if marked for retention, or if the damaged tree has a cavity used by wildlife. Otherwise, merchantable young growth trees damaged during timber operations shall be felled as approved and directed by the plan submitter.

- Item 15a: SOD Compliance: LTO is responsible for ensuring all vehicles are free from regulated host material. If logs will be delivered to a destination other than stated, a minor amendment is required.
- Item 18: Soil stabilization treatments required under item 18 will be accomplished using native grass seed or benign non-native grass species and weed free straw.
- Item 23: Wet weather road use plan (applies year round)
- Item 26: The Class I watercourse will have 150 foot WLPZ (except for harvest of cable corridor trees where needed). Class II watercourses will have 30 foot no-cut WLPZ inner band (except for harvest of cable corridor trees where needed). Except for the necessary removal of trees for safe cable yarding operations, no trees shall be harvested from within the bed and bank zone of the watercourse. There is a water drafting plan and JDSF has an approved 1600 permit for the drafting sites.
Note: McGuires pond (WD8) will likely be unavailable for water drafting.
- Item 30: Slash created and trees knocked down by timber operations within 100 feet of the edge of JDSF Road 500 shall be treated for hazard reduction.
- Item 32: There is no known Northern Spotted Owl (NSO) activity centers located within the plan area. No timber operations shall occur after February 1st until a current letter of technical assistance is amended into the THP.
- Item 33: Retain all snags within the timber harvest area, with the exception of snags that pose a fire or safety hazard, or are within the alignment of roads proposes for construction.

Copies of Sections I and II of the THP are available by request from the State Forest headquarters.

TIMBER SALE AGREEMENT

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| 3 | 2D | All timber scaled by "third party" scaling organization, using Revised Scribner Decimal C Log Rule. |
| 3 | 3A | Unless written extension of time is granted by the Director of Forestry and Fire Protection, all merchantable timber designated for cutting shall be paid for and cut on or before June 30, 2014. This date may be extended or the required volume may be adjusted mutually by the STATE and the PURCHASER due to unforeseen circumstances. All merchantable timber designated for cutting must be removed, and all other timber operations must be completed by November 15, 2014. This Agreement shall terminate on April 15, 2015, by which date all requirements of the Agreement must be completed. |
| 3 | 3B | Notification and permission is required for operations on weekends or State holidays. There shall be no log hauling on weekends or holidays between Memorial Day weekend and Labor Day. |
| 5 | 7 | <p>The Purchaser shall provide production and cost data with respect to all timber harvesting operations and other forestry activities. Required data includes person-hours and equipment-hours spent on each activity, and applicable rates for employees, machine and supervision, and costs for any materials or services needed for completion of activities.</p> <p>Daily water use data with respect to water drafting activities shall be provided.</p> |
| 6 | 10 | <p>The minimum log dimensions for utilization is 8 feet in length and 6 inches in small-end diameter.</p> <p>Any log segment presented for scaling shall be scaled as merchantable which has a net volume of at least 10 board feet, providing a net merchantable scale of at least 25 percent of the total volume.</p> |
| 6 | 11B | Payment for scaling and reporting services performed by the scaling organization and rental cost for the State Check Scaler's handheld computer shall be made by the Purchaser. |
| 8 | 11J | Conduct a minimum of one check scale per month per scaler by the scaling organization, during the operating season, to document scaler proficiency. |

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9	11P	The Purchaser shall provide weekly reports of faller days and volume felled. This information to be available for collection by the Timber Sale Officer or delivered to State Forest HQ no later than the following Tuesday.
10	13A	<p>All terms, provisions and requirements of the Forest Practice Rules and the Timber Harvesting Plan (1-12-101 MEN) are made part of the Timber Sale Agreement.</p> <p>On completion of operations satisfactory to the Timber Sale Officer, the operator shall certify by letter to the STATE, all operations are complete and comply with Forest Practice Rules and THP.</p>
10	13A1	<p>A pre-work conference to be attended by representatives of the STATE and the Purchaser, including subcontractors is required before operations can begin</p> <p>The Purchaser is responsible to ensure all contractors are provided with relevant applicable documentation.</p>
11	13A2	No timber operations shall be conducted after February 1 of any year until the STATE has completed required surveys for northern spotted owls, and extension of the No-Take determination has been received from the appropriate reviewing agency.
11	13A3	Flagging of all skid trails required at least two weeks in advance and notify the Timber Sale Officer for approval.
11	13A5	<p>Minimum distance between new skid trails is 100 feet, unless waived by the Sale Officer.</p> <p>Erosion control requirements apply year-round. Erosion control structures shall be installed on all skid trails and temporary or seasonal truck roads within 30 days of completion of their use, or at the end of day if the U.S. Weather Service forecast is a "chance" (30% probability or more) of rain before next working day or at any time that the equipment needed to install such structures leaves the sale area. All wet weather and winter period operations of the THP apply. Timber operations may be suspended by the sale officer if damage is occurring.</p>
12	13A7	Merchantable trees felled and bucked to log lengths, limbed to the 6-inch top, and the top bucked at the time of felling.

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12	13A8	All slash created by timber operations within 100 feet of JDSF Road 500 shall be lopped to the extent that no portion shall remain over 24 inches above the ground for 100 feet.
12	13A9	<p>Maximize the extent of spreading slash to avoid or minimize the need for piling and isolating slash for burning.</p> <p>Logging wastes on landings on permanent and seasonal roads shall be segregated into large materials which can be utilized by firewood cutters. Material at least 8 inches in diameter and 6 feet in length is considered suitable for firewood.</p>
13	13A11	Cable yarding system requirements are given.
13	13A12	Location of cable corridors will be flagged, mapped and approved by Sale Officer prior to rigging. Distance between cable corridors, no less than 200 feet measured from the back of cable road.
14	13A16	No permanent painted messages. Use temporary signs to be removed once their function is complete.
14	13A20	Mulching standard is at least 95% coverage to a minimum depth of four inches.
15	17A3	Road width is 14 feet including 1 foot shoulder on each side of a 12 foot traveled surface. Width may be wider on curves.
16	17A5	Full bench road construction on slopes exceeding 50%.
16	17A6	Seasonal roads will be outsloped (2-5%) without a berm or ditch. Rolling dips will be constructed on road grades of 7% or less during road construction at locations proposed by the Purchaser, approved by the Timber Sale Officer. The Sale Officer will specify the location for drainage structures on roads greater than 7% prior to final road grading.
16	17D	<p>All required culvert installations to be complete prior to log hauling on existing roads and concurrent with road construction and prior to use on proposed roads.</p> <p>Dispose culverts at an off-forest public disposal site.</p>
18	17H	Maintenance work to be done within 15 days of end of hauling operation on each road and immediately on completion of hauling on any road after October 15.

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19	17N	Reinstall an iron gate located on Road 508 near the 508/500 intersection.
19	17O	The Purchaser shall provide, haul, place and compact 40 cubic yards of $\frac{3}{4}$ " minus coarse crushed rock for road stabilization at locations specified by the Timber Sale Officer.
19	17Q	The Purchaser shall provide and apply lignin (or equivalent dust treatment substance acceptable to the STATE) on approximately 1.5 miles on Road 500.
20	20	In addition to required fire tools complement, have available to the sale area for fire suppression purposes a "water wagon" or similar self-propelled vehicle of at least 1,000 gallon capacity.
32	1	A deposit of \$20,000 must be submitted with the bid.
33	3	Furnish STATE copies of Timber Yield Tax calculations and reporting forms.
37	4	Performance security of \$50,000 required prior to contract approval.

Upper Hare Creek 2012 FLAGGING CODE

DESIGNATED ACTIVITY	FLAGGING COLOR
Timber harvesting area	Solid pink-glo and/or pink-glo Site-Mark® "TIMBER HARVEST BOUNDARY" in black lettering
Class I watercourse	Solid blue
Class I WLPZ	Blue/white Site-Mark® "LAKE AND WATERCOURSE PROTECTION ZONE" in black lettering AND solid blue
Class II watercourse	Blue/white stripe
Class II WLPZ	Blue/white Site-Mark® "LAKE AND WATERCOURSE PROTECTION ZONE" in black lettering
Class III watercourse	Blue/white polka-dot
Tractor/cable boundary	Red/white stripe
Tractor road (skid trail)	Solid yellow Site-Mark® "SKID TRAIL" in black lettering
Road grade centerline	Solid orange and/or solid orange Site-Mark® "TRUCK ROAD" in black lettering
Landing at end of road	Three flags of solid orange and/or solid orange Site-Mark® "TRUCK ROAD" in black lettering
Message flag	Pink/black stripe
Survey stations, Cruise stations	Red/white polka-dot
Equipment Limitation Zone (ELZ)	Solid red and solid white